Defense Business Systems (DBS) Acquisition (CLE077)

KICK OFF MEETING

26 October 2015

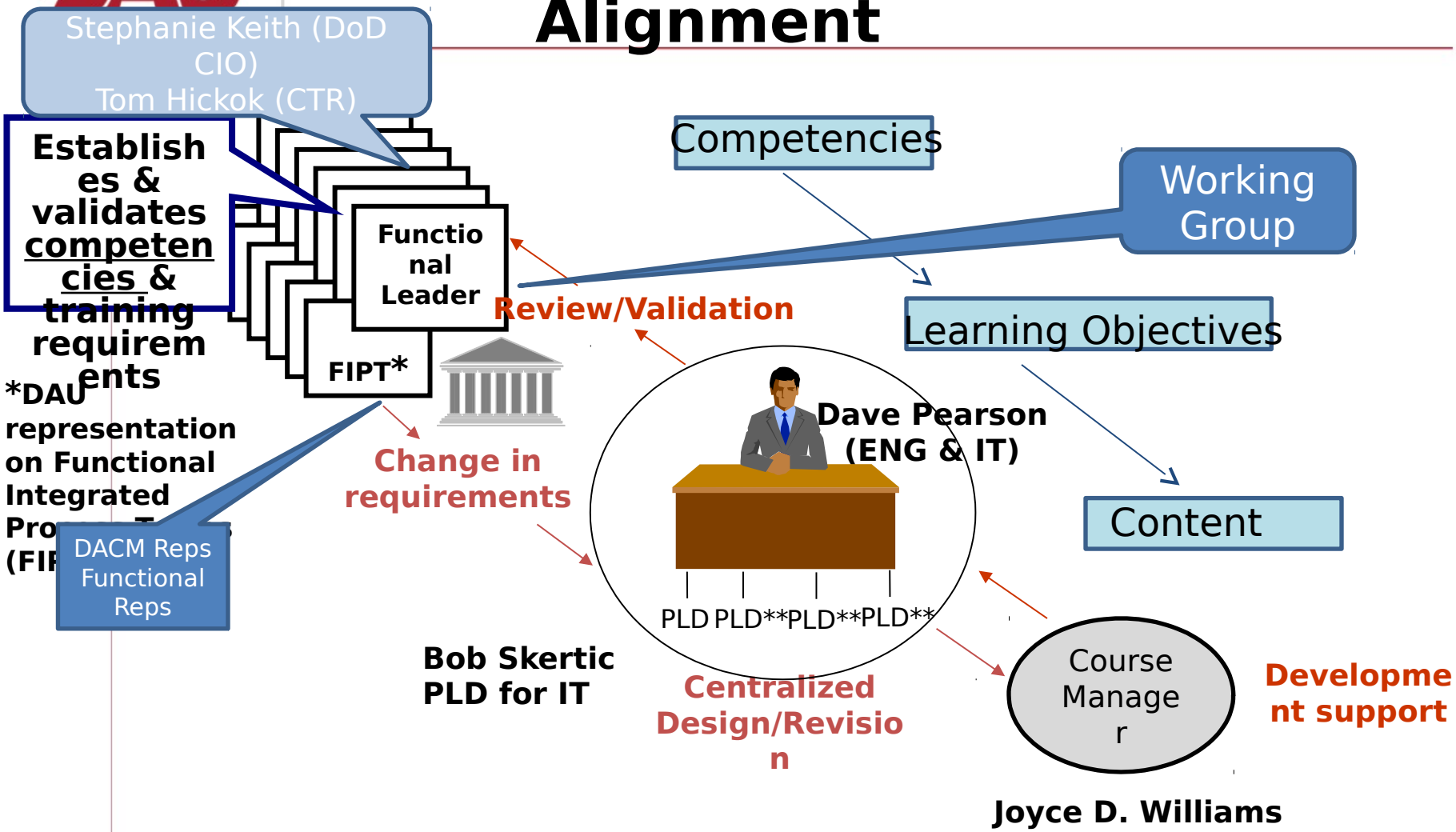
Dave Pearson
Bob Skertic
Joyce D. Williams

Defense Acquisition University

Agenda

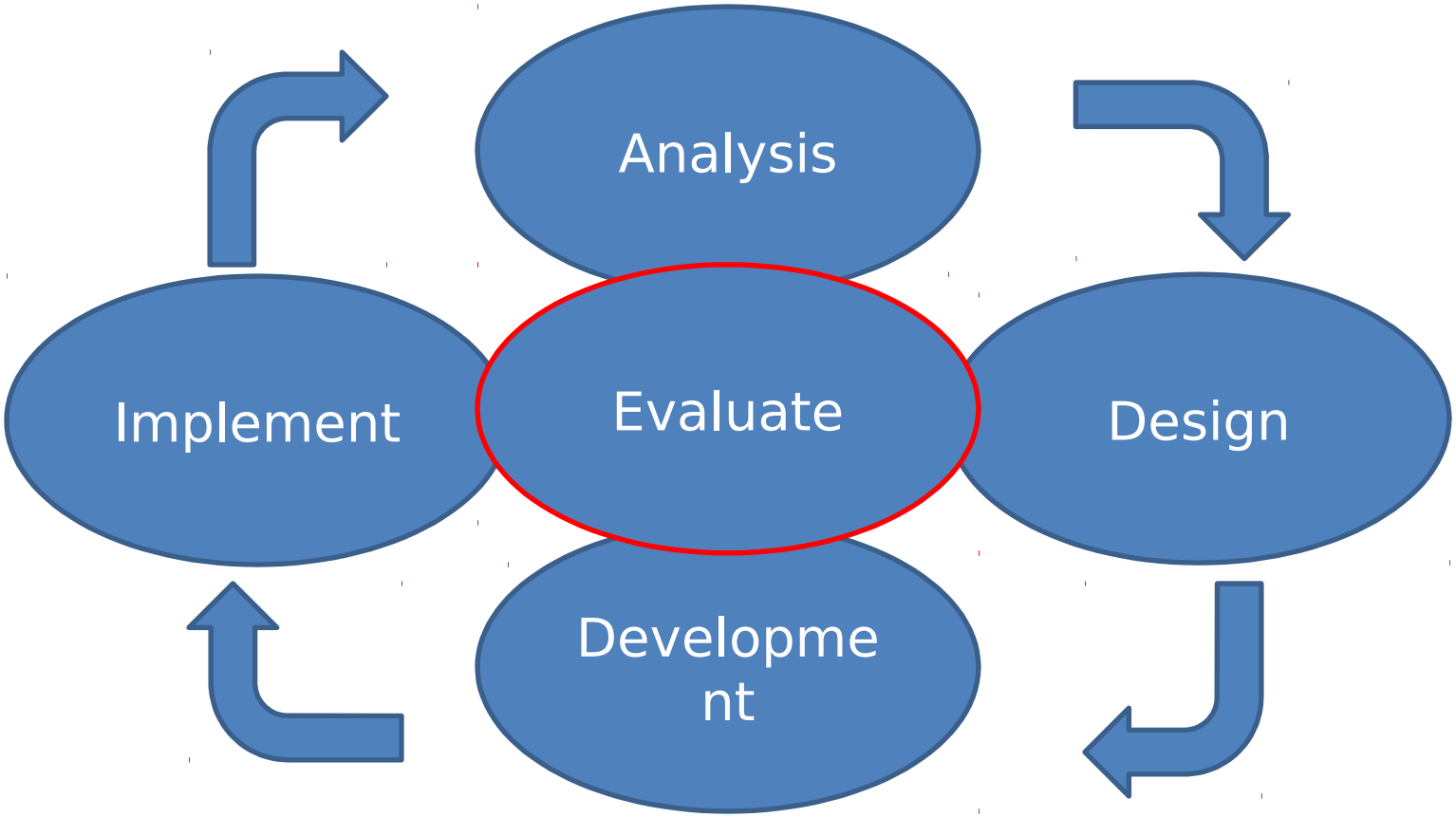
- DAU Curriculum Development Overview
- ADDIE Process
- DAU Course Development Process
- DoD Software Domains and Acquisition
- Systems Across DoD
- Project Objectives / Scope
- Initial Course Content Thoughts
- The Project Team
- Initial Roadmap/Schedule
- Project Success Factors

DAU Curriculum Alignment

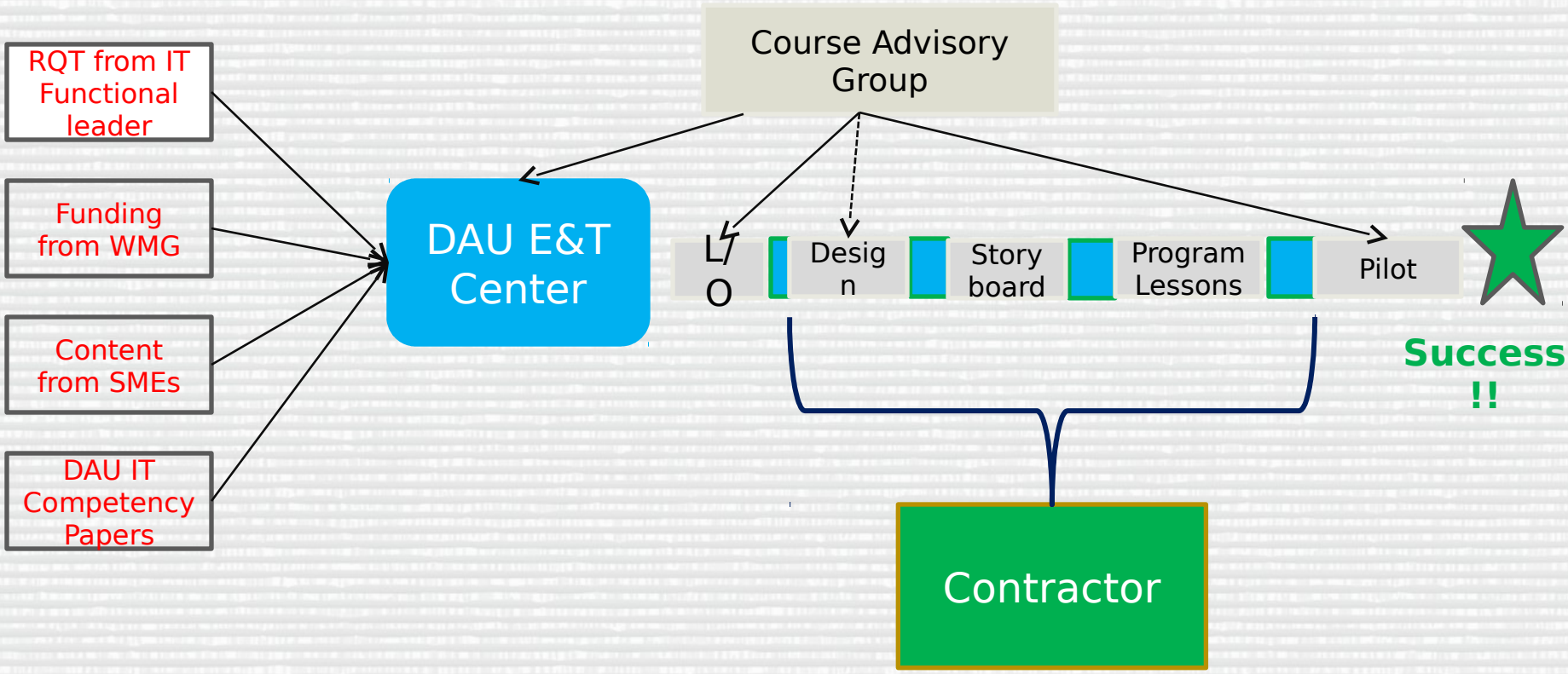


DAU's curriculum is owned by our stakeholders.

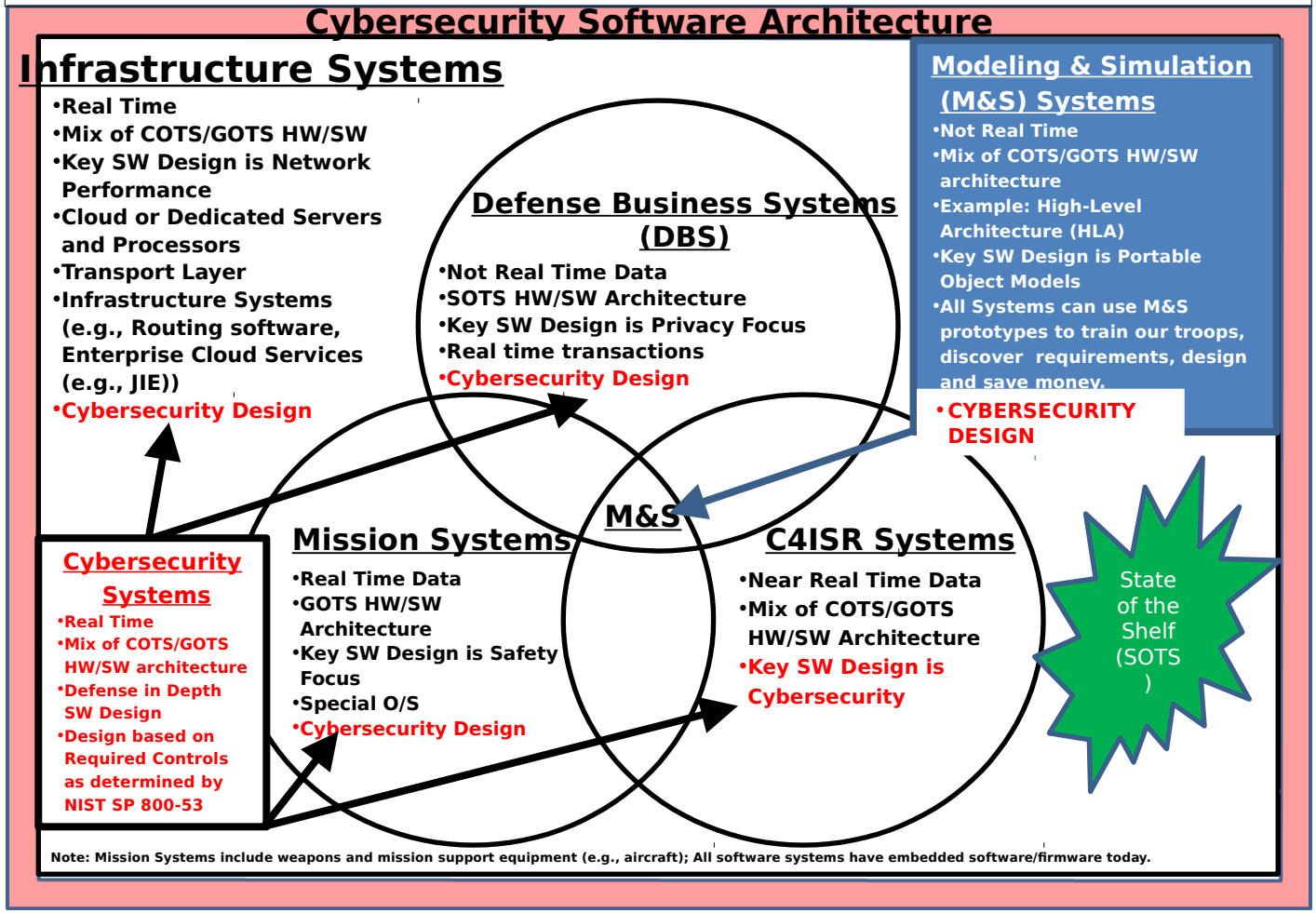
Analysis, Design, Development, Implement, Evaluate (ADDIE) Process



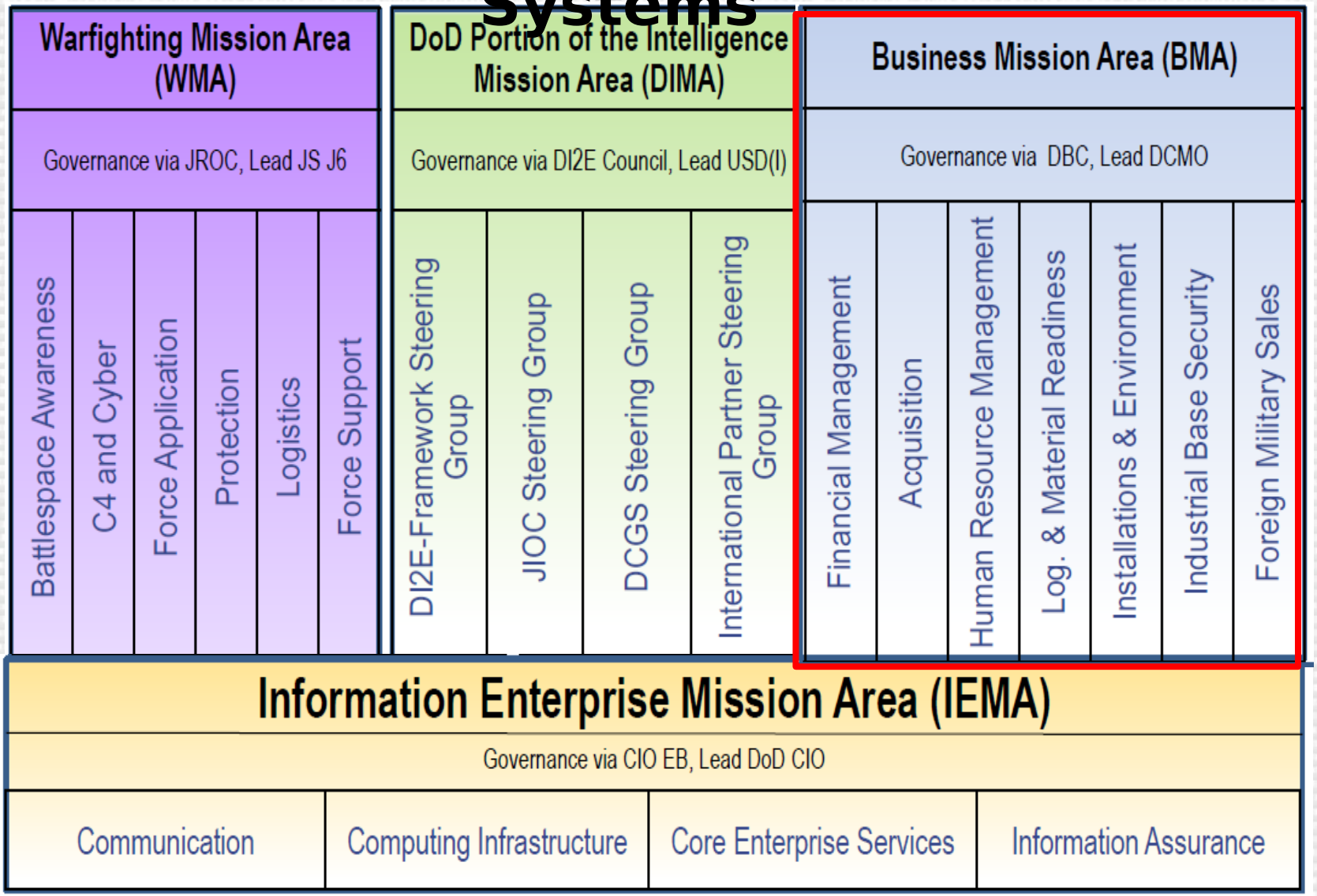
DAU Course Development Process Continuous Learning Module (CLM)



DoD Software Domains and their Impacts on SW Acquisition


Cybersecurity Software Architecture
Infrastructure Systems
•Real Time
•Mix of COTS/GOTS HW/SW
•Key SW Design is Network Performance
•Cloud or Dedicated Servers and Processors
•Transport Layer
•Infrastructure Systems (e.g., Routing software, Enterprise Cloud Services (e.g., JIE))
•Cybersecurity Design
Defense Business Systems (DBS)
•Not Real Time Data
•SOTS HW/SW Architecture
•Key SW Design is Privacy Focus
•Real time transactions
•Cybersecurity Design
Modeling & Simulation (M&S) Systems
•Not Real Time
•Mix of COTS/GOTS HW/SW architecture
•Example: High-Level Architecture (HLA)
•Key SW Design is Portable Object Models
•All Systems can use M&S prototypes to train our troops, discover requirements, design and save money.
•CYBERSECURITY DESIGN
M&S
Cybersecurity Systems
•Real Time
•Mix of COTS/GOTS HW/SW architecture
•Defense in Depth SW Design
•Design based on Required Controls as determined by NIST SP 800-53
Mission Systems
•Real Time Data
•GOTS HW/SW Architecture
•Key SW Design is Safety Focus
•Special O/S
•Cybersecurity Design
C4ISR Systems
•Near Real Time Data
•Mix of COTS/GOTS HW/SW Architecture
•Key SW Design is Cybersecurity
State of the Shelf (SOTS)
Note: Mission Systems include weapons and mission support equipment (e.g., aircraft); All software systems have embedded software/firmware today.

WMA vs DIMA vs BMA vs IEMA Systems



CLE 077 Objectives

- Develop an online, interactive, self-paced module:
  - DESIGN: Offered through the DAU's learning management system
  - SCOPE: Focused on understanding the **basics** of Defense Business Systems (DBS), to include their unique:
    - acquisition model
    - solution architecture
    - relationships with the other DoD Software Domains
- Estimated 5 hours to complete the module using "lunch-able" lessons
- Targeted completion date of FY2017 (1st quarter)
  - Roadmap and tentative schedule will provide more detail
- Target Audience: Defense acquisition field and across all acquisition career fields (Military officers (O-3 and above), Civilians (GS-9 and above), Industry equivalents)

Initial CLE077 Content Thoughts (DRAFT)

Recommended course should include:

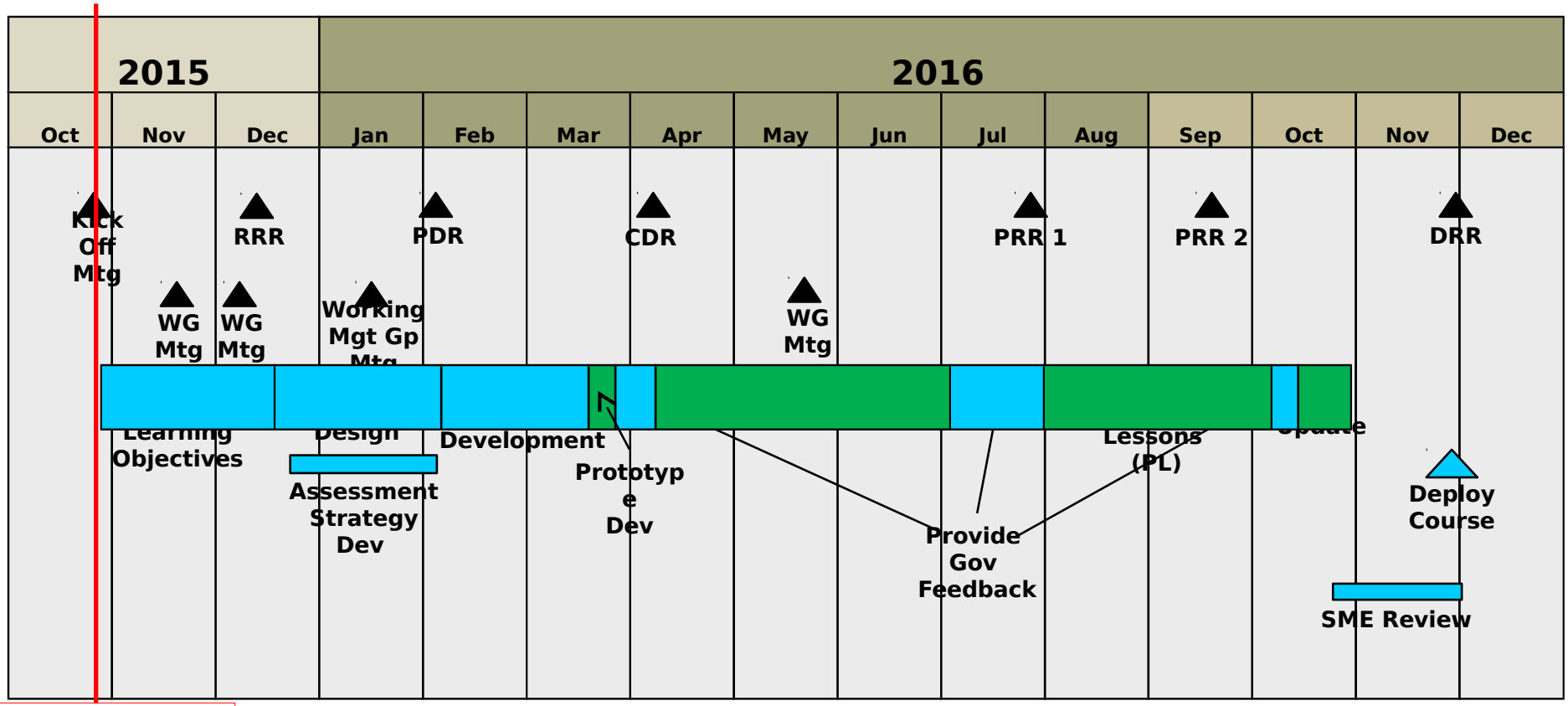
- **DBS Governance (Laws, Policies, Regulations) on DBS Acquisition**
- **DBS Program/Project Justifications, Approval and Compliance Processes**
- **DBS Acquisition/Contracting/Funding/IP/Test Strategies**
- **DBS software development (Agile, Incremental, Spiral) for rapid delivery**
- **DBS life-cycle considerations**
- **State of the Shelf (SOTS), COTS, Configurable COTS, ERPs**
- **Service Development and Delivery Process (SDDP)**
- **IT as a Service (ITaaS)**
- **Requirements and Change Management Processes**
- **Cybersecurity Architecture**
  - **Privacy as a main software design feature**
- **Enterprise to Solution DBS Architectures**
- **Data and Data Management**
- **DBS Acquisition Measurement Program**
- **DRAFT DAG Chapter on DBS**
- **Other Lessons Learned, Evidence-based Best Practices, Rules of Thumb**

CLE077 Project Team

CLE DBS Team		
NAME	**ROLE**	**Responsibilities**
Stephanie Keith	Sponsor	Sponsor
Jane Rathbun AT&L*	WG Co-lead	Project Direction
David Pearson DAU*	E&T Center Director WG Co-lead	Execution Oversight
Bob Skertic DAU*	LCIC IT Performance Learning Director (PLD)	Overall accountable for fielding of the course
Joyce D. Williams DAU	Learning Asset Manager (LAM), CLE077	Project management of the course's development
Scott Smith AT&L*	Lead DBS SME	Lead Subject Matter Expert (SME)
Tom Hickok*	Functional Leader Representative	Project guidance, communications to FIPT
Contractor	Instructional Systems Designer (ISD)	Instructional design integrity of the course
Development Group Team Members	Content Development	Contribute and confirm learning objectives Provide input on course design Develop course content

*Course Advisory Group Member

CLE077
Acquisition Roadmap



Tentative Schedule

November to December 2015
- Course manager/SME Team develop learning objectives
- Requirements Readiness Review (RRR)

January 2016
- Course Advisory Group (CAG) submit comments on learning objectives
- WMG meets to approve revised learning objectives and discuss Preliminary Design

February 2016
- Course manager/SME Team finalize initial course outline/design and Assessment Strategy
- Preliminary Design Review (PDR)

February to March 2016
- Course manager/SME Team develop course content

March 2016 – October 2016
- Contractor Activities

April 2016
- Critical Design Review (CDR)

May 2016
- WG Meeting

July 2016
- Production Readiness Review (PRR) 1

September 2016
- Production Readiness Review (PRR) 2

November 2016 (Late)
- Deployment Readiness Review (DRR)
- SME Review

PROJECT SUCCESS FACTORS

- Stable and accessible project team throughout duration of project
- Stay on schedule
- Issues escalated and addressed in a timely fashion
- Continuous and consistent communication
- Work within the working group structure
- Leverage as much provided content as possible material:
  - NEW DAG Chapter 12 (Need to Obtain DRAFT)
  - Other applicable content
- Benchmark other course managers for Best Practices detailed upfront planning to include:
  - Applying SE principles to Curriculum Development
  - Get TLO's/ELOs developed, coordinated, and approved using the working group.